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COMPENSTATION OF SIMPLE FIBRE OPTIC FARADAY EFFECT SENSORS

ABSTRACT OF THE DISCLOSURE

5 An electric current measurement device includes a housing defining first and second open ends sealed by first and second sealing means, respectively; a first optical fibre received in an aperture in the first sealing means and in optical communication with a first optical lens in the housing; a first polarisation filter in the housing in optical communication with the first lens; a magneto-
10 optical rod within the housing in optical communication with the first polarisation filter; a second polarisation filter in the housing in optical communication with the rod; and a second optical lens in the housing in optical communication with the second polarisation filter. The second sealing means has an aperture for receiving a second optical fibre fixed to the second lens. First and second lids, attachable to the first and second housing ends, respectively, include apertures for
15 receiving the first and second optical fibres, respectively.